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(54) Title: THE NOVEL BACILLUS AMYLOLIQUEFACIENS KTGB0202 AND CONTROL METHOD OF PLANT PATHOGENIC FUNGI USING THAT

(57) Abstract: The present invention relates to a novel microorganism *Bacillus amyloliquefaciens* KTGB0202 and a method for controlling plant pathogens using the same. More particularly, the present invention relates to a novel microorganism *Bacillus amyloliquefaciens* KTGB0202 (accession number: KCTC 10564BP) bacterium which has an excellent control effect against crop powdery mildew and a broad spectrum of antifungal activity against plant pathogenic fungi and inhibits tobacco mosaic virus infection, as well as an eco-friendly bacterial culture broth for controlling powdery mildew, which contains the same. Also, the present invention relates to antifungal substance KTGB0202AFO1 obtained by extraction and purification from the *Bacillus amyloliquefaciens* KTGB0202 bacteria. The inventive *Bacillus amyloliquefaciens* KTGB0202 bacteria have a broad spectrum of antifungal activity, and are excellent in activity continuance and used for controlling various plant pathogens, including powdery mildew.

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